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Application No. 10/609,121

Filed: June 27, 2003 TC Art Unit: 1722

Confirmation No.: 6700

## AMENDMENTS TO THE CLAIMS

1. (currently amended) An injection mold having a hot-runner mold, comprising:

a cavity mold which has a gate of a sprue of a cavity in a concave formed in a bottom thereof; a peripheral portion of the gate being formed into a flat face; and

a hot-runner mold which is provided with a needle-valvenozzle having an end face formed into a flat face, the hot-runner mold being arranged on the cavity mold with the end of the needlevalve-nozzle inserted into the concave,

wherein the nozzle includes:

a nozzle body having an opening formed in the end face of the nozzle; and

a short cylindrical tip that is formed of metal having lower thermal conductivity than the nozzle body and has a flat end face and a nozzle orifice in the center of the end face, the tip having an inner peripheral wall face extending to the nozzle orifice, the inner peripheral wall face being formed in a conical face having the same angle as the conical end portion of a needle mounted in the needle-valve-nozzle and being fitted on the end portion of the needle to close the nozzle orifice and to support the tip, the tip being slidably fitted in the opening formed in the end face of the

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nozzle in such a way that its the end face of the tip is protruded

from the end face of the nozzle and directly nozzle-touched the

gate of the sprue of the cavity.

(canceled)

3. (previously presented) The injection mold having a hot-runner

mold as claimed in claim 1, wherein the nozzle body is made of

steel for a mold and the tip is made of a titanium alloy having

lower thermal conductivity than the steel for a mold.

4. (currently amended) The injection mold having a hot-runner

mold as claimed in claim 21, wherein the nozzle body is made of

steel for a mold and the tip is made of a titanium alloy having

lower thermal conductivity than the steel for a mold.

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